

-5 CAAAC
 1 ATGGCGGCTCCACTAGGGGGTATGTTTTCTGGGCAGCCACCCGGTCCCCCTCAGGCCCGG
 1 M A A P L G G M F S G Q P P G P P Q A P
 61 CCGGGCCCTTCCGGGGCAAGCTTCGCTTCTTCAGGCAGCTCCAGGCGCTCCTAGACCTTCC
 21 P G L P G Q A S L L Q A A P G A P E P S
 121 AGCAGTACTTTGGTGGACGAGTTGGAGTCATCTTTTCGAGGCTTGCTTTGCATCTCTGGTG
 41 S S T L V D E L E S S F E A C F A S L V
 181 AGTCAGGACTATGTCAATGGCACCGATCAGGAAGAAATTCGAACCGGTGTGATCAGTGT
 61 S Q D Y V N G T D Q E E I R T G V D Q C
 241 ATCCAGAAGTTTCTGGATATTGCAAGACAGACAGAATGTTTTTCTTACAAAAAAGATTG
 81 I Q K F L D I A R Q T E C F F L Q K R L
 301 CAGTTATCTGTCCAGAAACCAGAGCAAGTTATCAAAGAGGATGTGTCAGAACTAAGGAAT
 101 Q L S V Q K P E Q V I K E D V S E L R N
 361 GAATTACAGCGGAAAGATGCACTAGTCCAGAAGCACTTGACAAAGCTGAGGCATTGGCAG
 121 E L Q R K D A L V Q K H L T K L R H W Q
 421 CAGGTGCTGGAGGACATCAACGTGCAGCACAAAAAGCCCGCCGACATCCCTCAGGGCTCC
 141 Q V L E D I N V Q H K K P A D I P Q G S
 481 TTGGCCTACCTGGAGCAGGCATCTGCCAACATCCCTGCACCTCTGAAGCCAACGTGAGCA
 161 L A Y L E Q A S A N I P A P L K P T *
 541 aagggcagag gcagttggcc tatgagtggg ctgatgogtg aggttggcca cacattcctt
 601 cctgtggact tgaattttg gaagaaactt ttgccagata atgagttcat tttagtttta
 661 tgcctccatt gaaaaatttt ccaattttt tataagctgt taatttcttg agtactttat
 721 aacatgtctg tagcttggat aaaccaagta agtatttttt tttagctttt agcaaaagttt
 781 agactgtgaa tatgatgaca cagattcttt tttaggttgg cttagcttgt tttaaatttt
 841 tgcattgactt tcatctttt tatgttgtt tctgttagt tcatccgaag gaaaagagta
 901 tagtagcctg agaatcagga gatgggaggt ttatcttagt gccttatgat aattaccccg
 961 cgggtggtgtg tagaaaagta tgtaaatttg ctctgtttta agactttgaa cta cctcaag
 1021 aagaggaatc taatacaata ttgtaatgt ttccagagct ctcagaatga ggattttttt
 1081 gtaaataggt cagaagacga tggaaactgt ctgggttagt atagtaactc ta cagtagga
 1141 tcttaggtt gatgctgact tctgtttggg gtatgtttat attttatgtg gtgtttactt
 1201 ttttttttg acatagaagg atatagtggg agcagtgata cgctaacatt cattacatto
 1261 tgcagtaatg aatctg

Fig 1A

	MAAXLGGMPXGQPPGPPXXPPLPGQASLLQAAPGAPRPS	Majority
	10 20 30 40	
1	MAAPLGGMPFPGQPPFPFPAFFGLFGQASLLQAAPGAPRPS	Human
1	MAASLGGMPETGQPPFPFPPFGLFGQASLLQAAPGAPRPS	Mouse
1	MASNESG	Drosophila
	XSTLVDELESSFPACFASLVSCDYVNGTDQEEIRTSVDQC	Majority
	50 60 70 80	
41	SSTLVDELESSFPACFASLVSCDYVNGTDQEEIRTSVDQC	Human
41	NSTLVDELESSFPACFASLVSCDYVNGTDQEEIRTSVDQC	Mouse
8	GGNLMDEFEFAEQSCLLTTLTDEPNSSGTNKKHIDLELVQNT	Drosophila
	IQKFLDIARQTECFELQKRLQLSVCKKXQVIKEDVSELRY	Majority
	90 100 110 120	
81	IQKFLDIARQTECFELQKRLQLSVCKKXQVIKEDVSELRY	Human
81	IQKFLDIARQTECFELQKRLQLSVCKKXQVIKEDVSELRY	Mouse
48	TSRFLDVARQMEAFELQKRFLLVSTLKYMLIKDENQDLST	Drosophila
	ELQKRDALVQKHLLTLRHKKQVLEEDIN--VQHK-----	Majority
	130 140 150 160	
121	ELQKRDALVQKHLLTLRHKKQVLEEDIN--VQHK-----	Human
121	ELQKRDALVQKHLLTLRHKKQVLEEDIN--VQHK-----	Mouse
88	ELQKRDALVQKHLLTLRHKKQVLEEDIN--VQHK-----	Drosophila
	-----FPACMPGSSLAAXLEQASANI PA	Majority
	170 180 190 200	
152	-----FPACMPGSSLAAXLEQASANI PA	Human
152	-----FPACMPGSSLAAXLEQASANI PA	Mouse
128	GMLCGPGGGMPFMGGTFPFRPGNMPGMPFGAMCPGGFMQR	Drosophila
	P-----LKEPT	Majority
	210 220	
174	P-----LKEPT	Human
174	P-----LKEPT	Mouse
168	PHMLCAGCMQQLRMISFQMPER	Drosophila

Fig. 1B

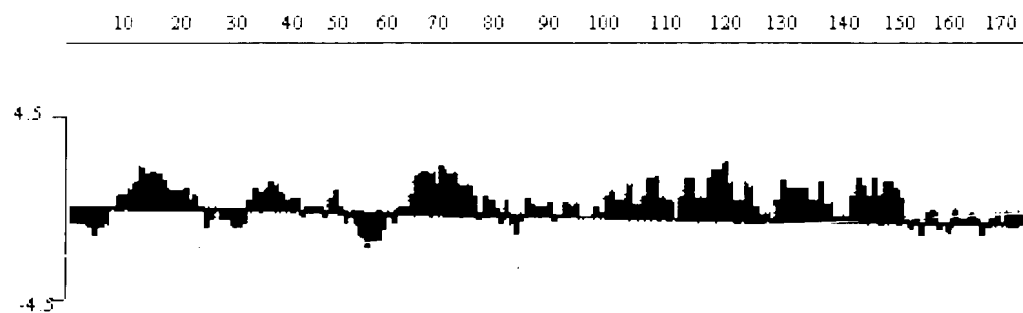


Fig. 2A

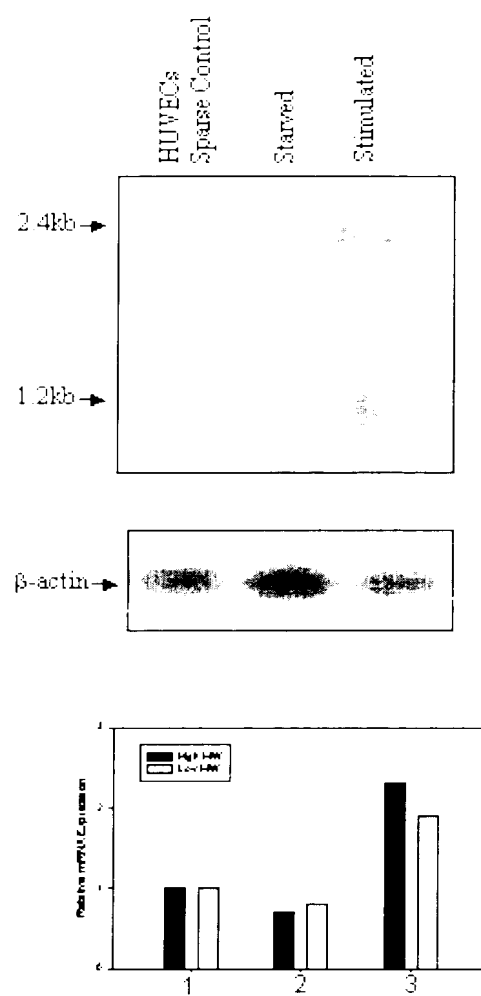
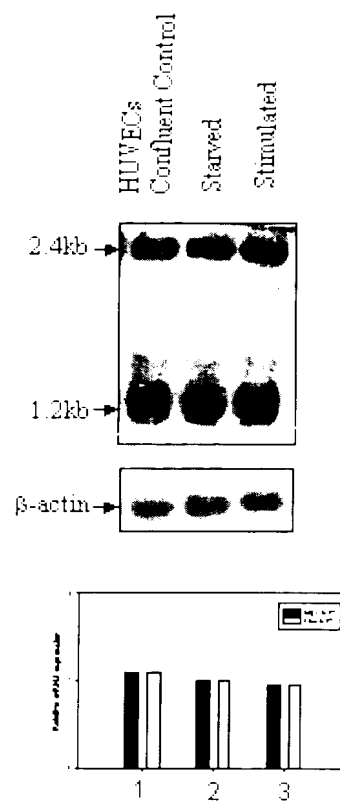
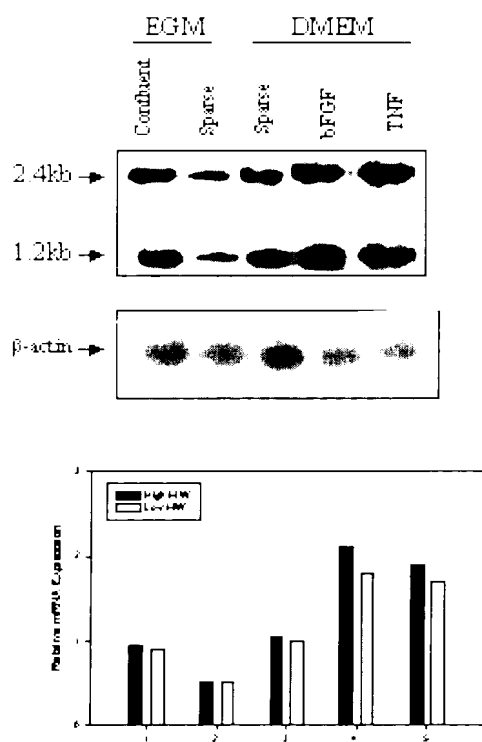
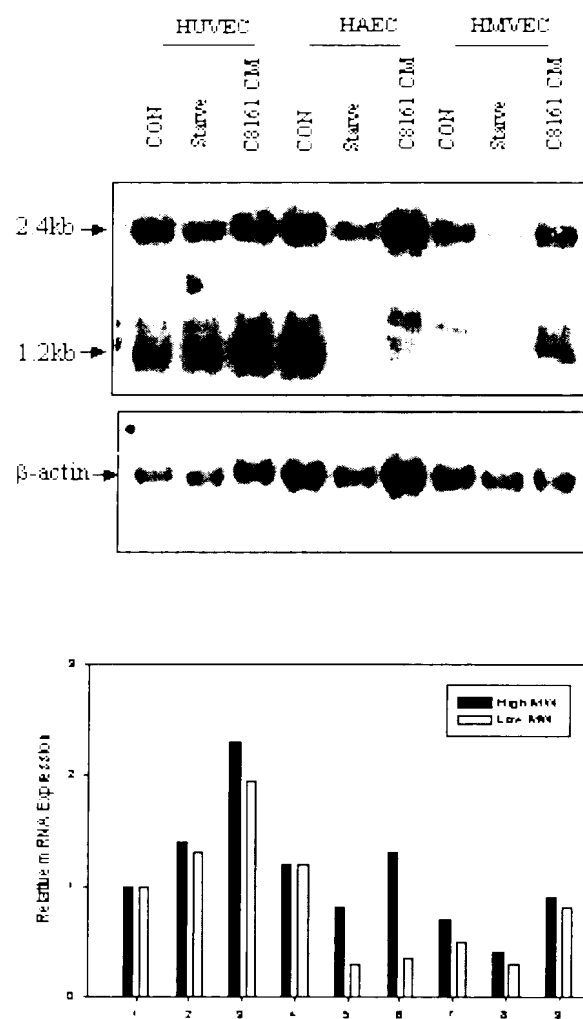
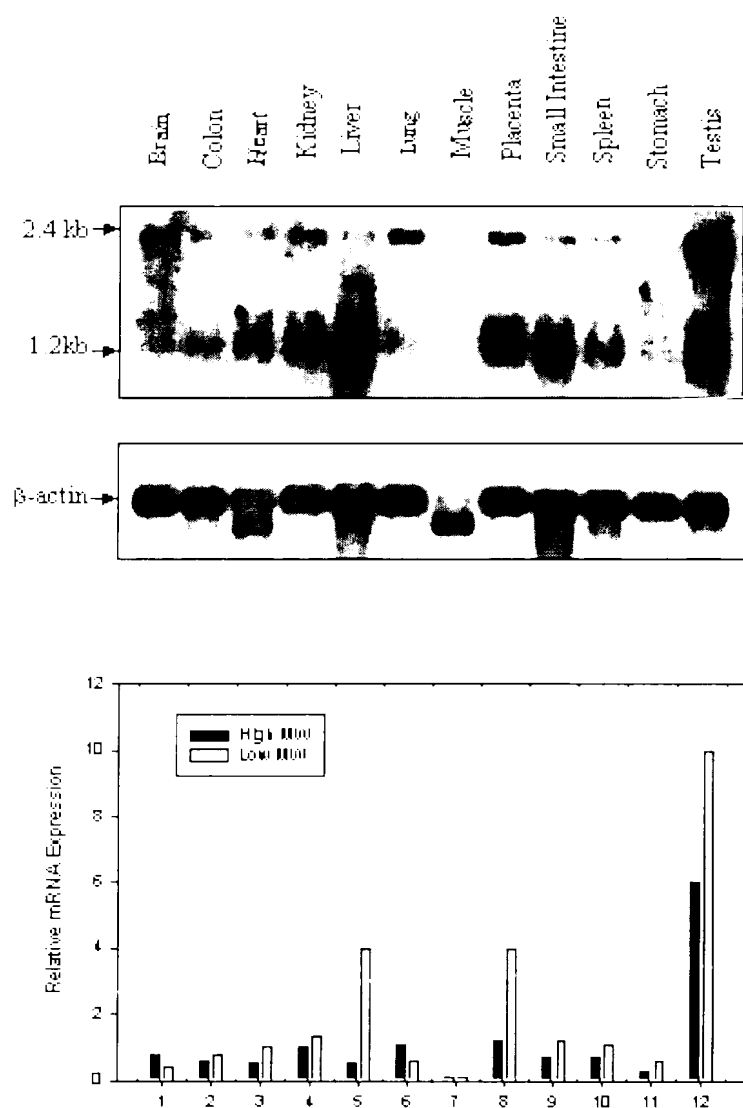


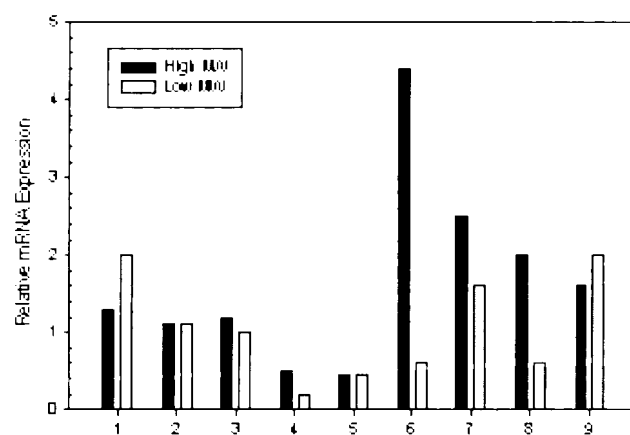
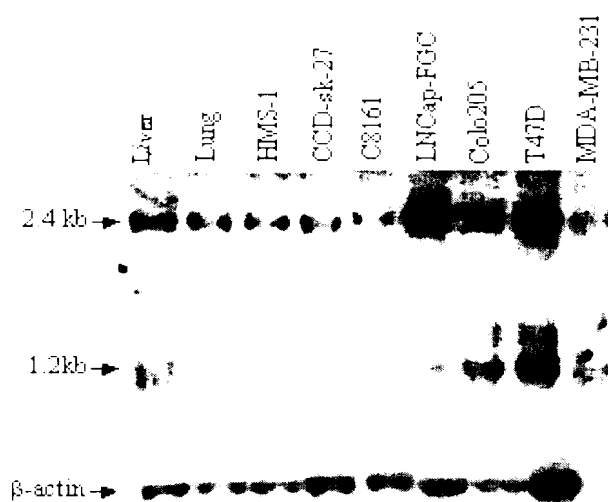
Fig. 3A

**Fig. 3B**

**Fig. 4**

**Fig. 5**

**Fig. 6**

**Fig. 7**

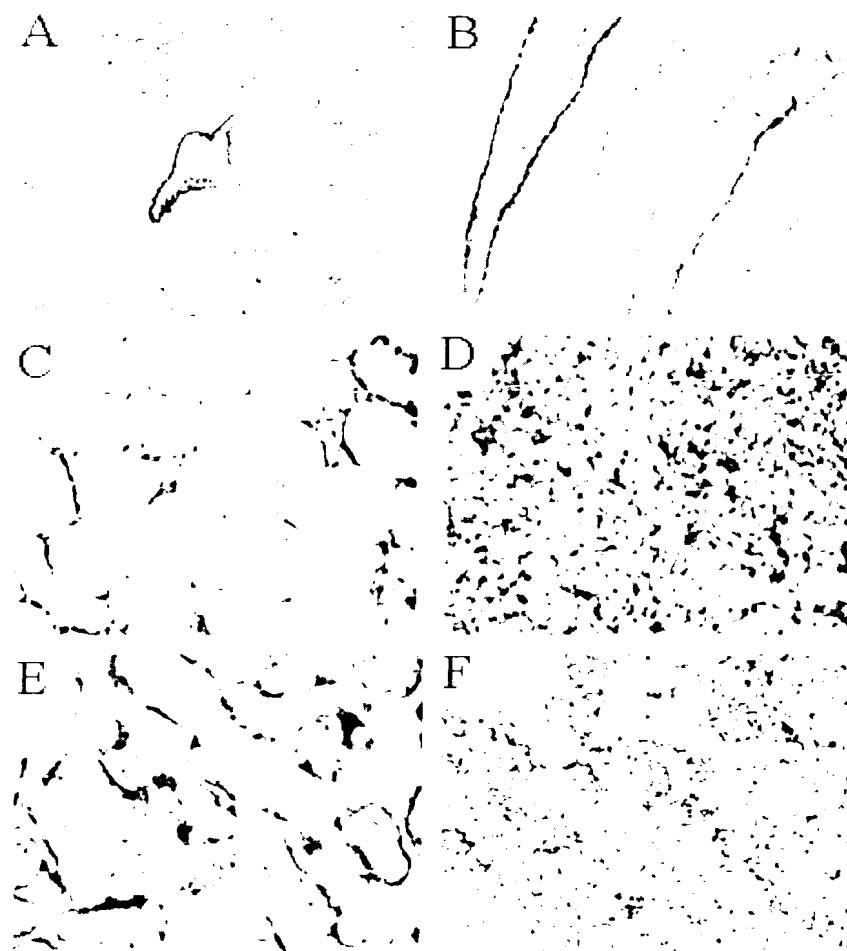


Fig. 8

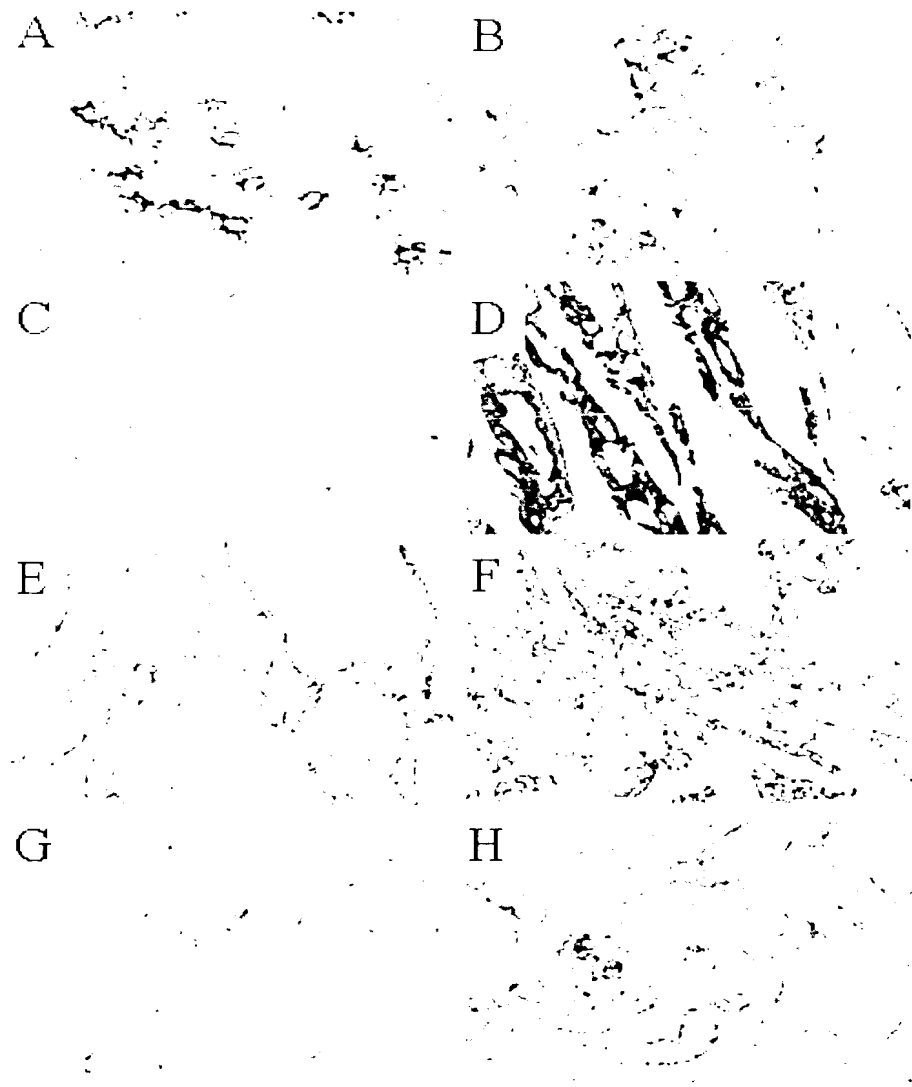


Fig. 9

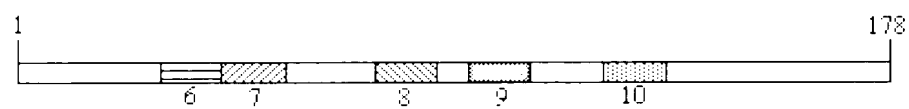


Fig. 10

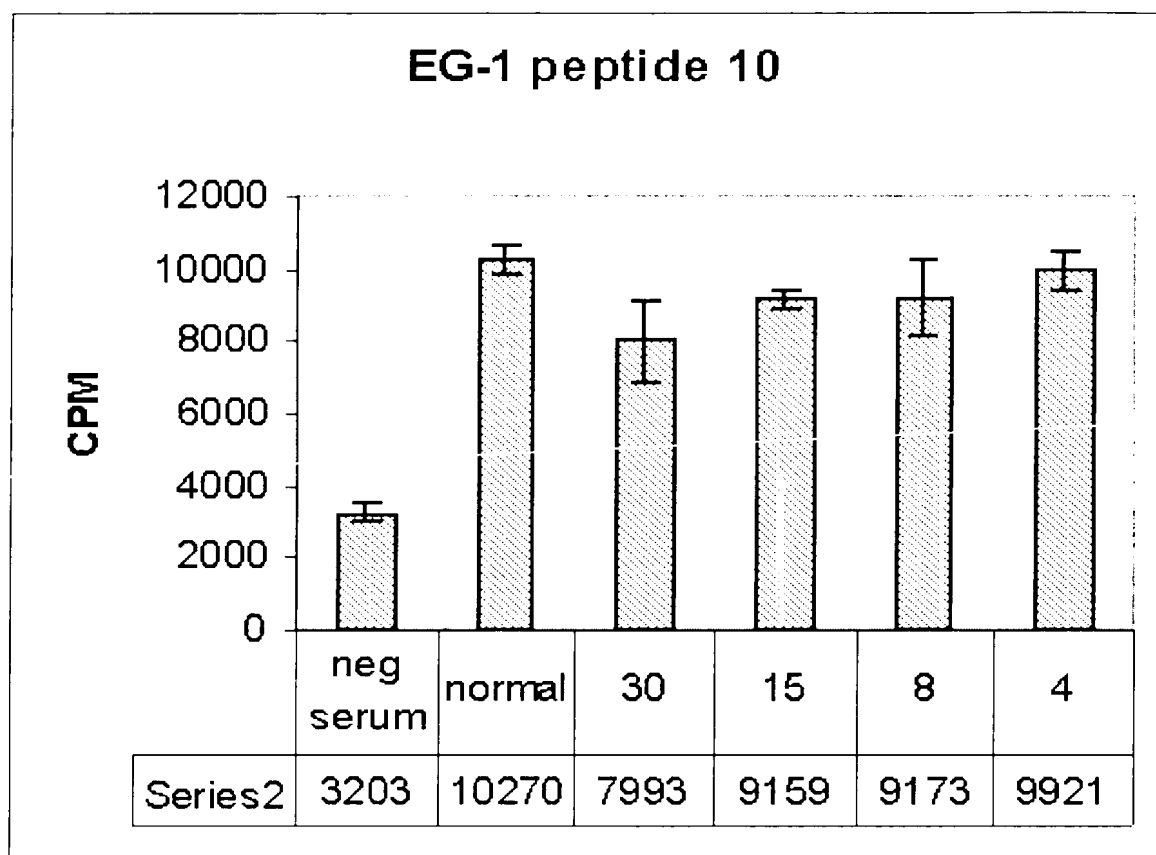


Fig. 11

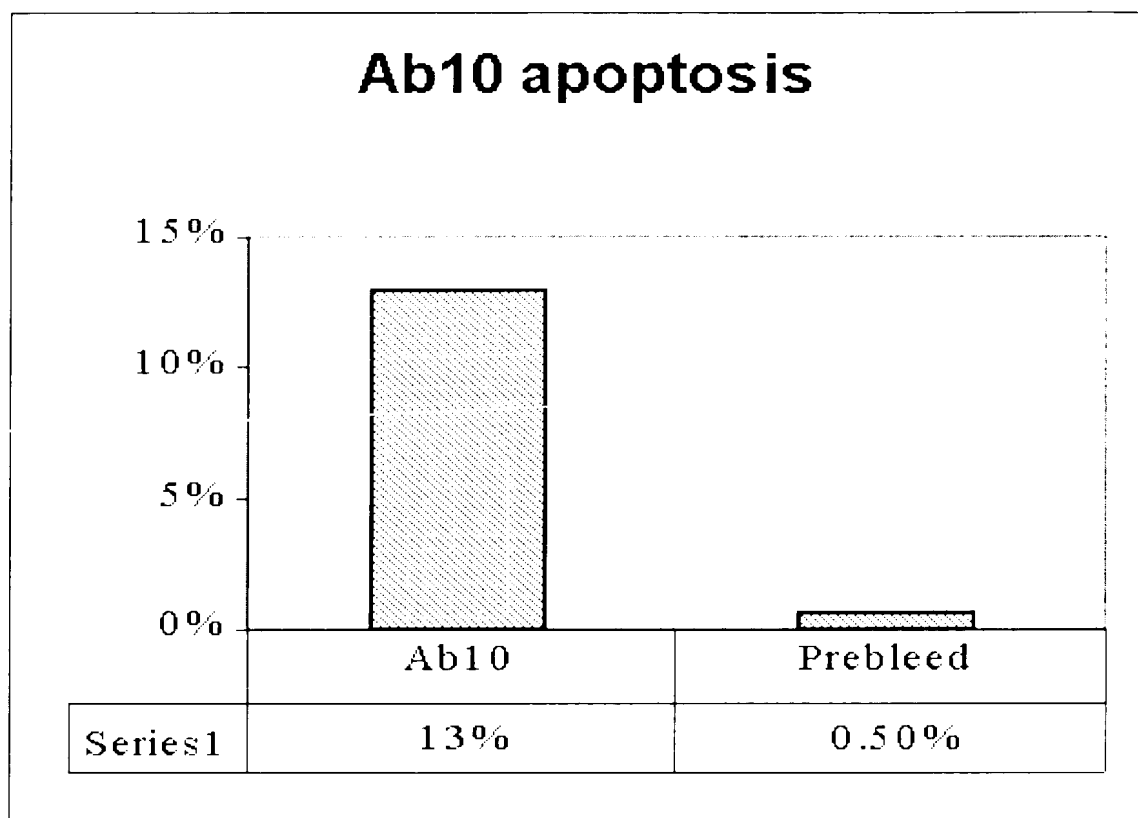


Fig. 12

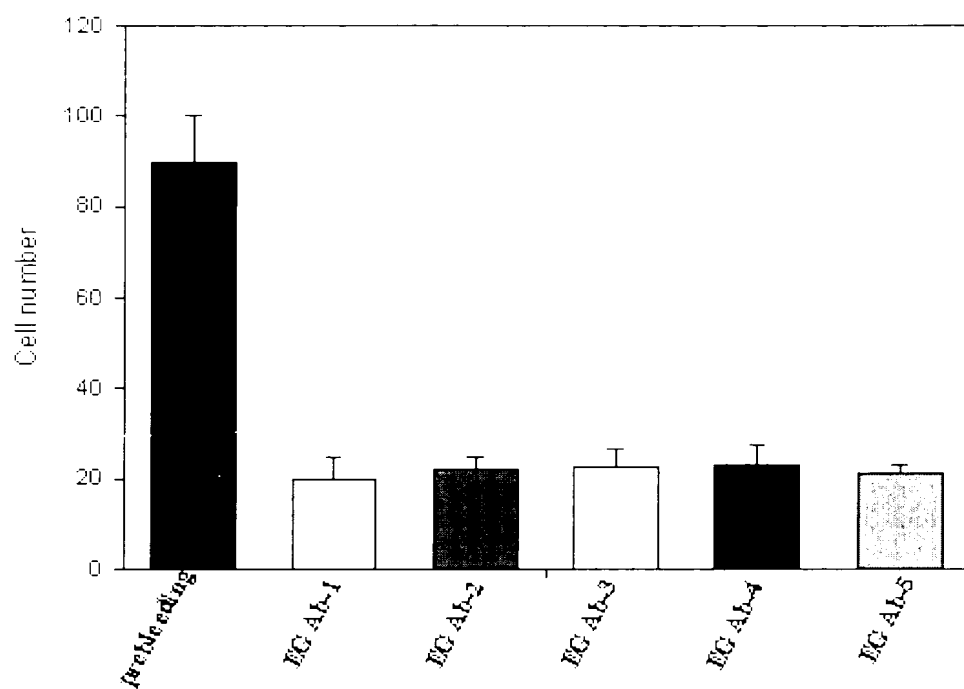


Fig. 13

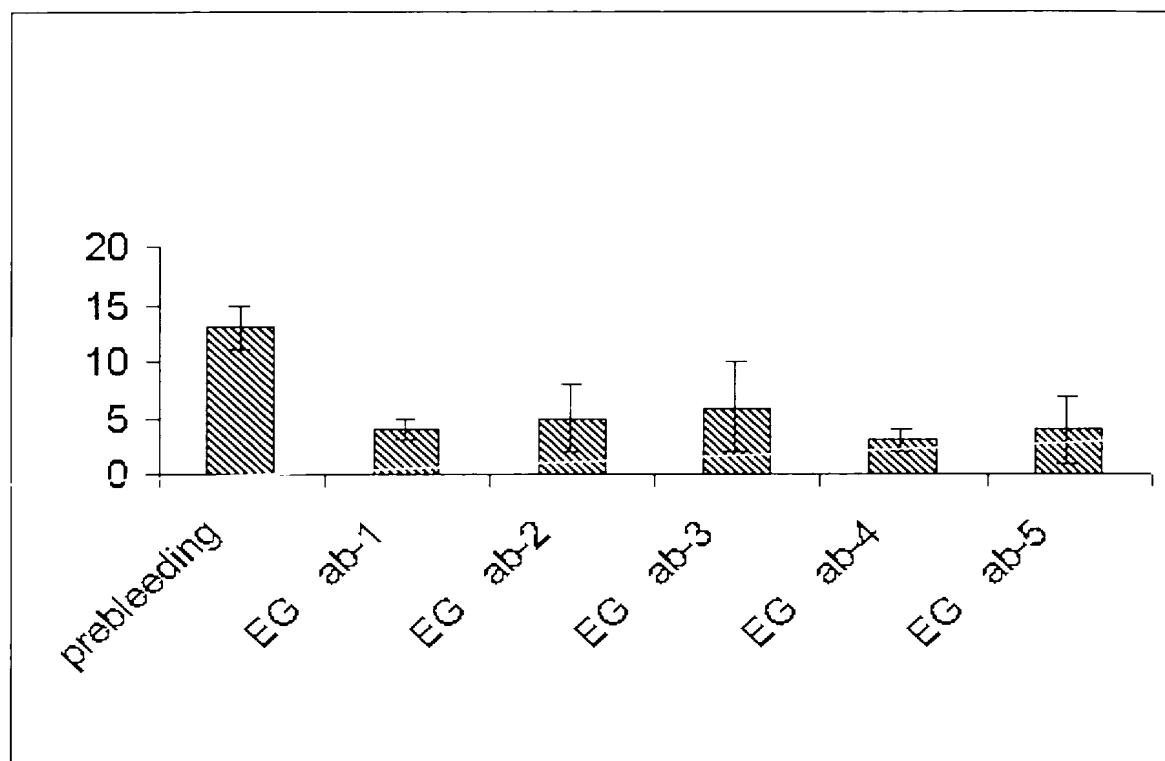


Fig. 14

Fig. 15A

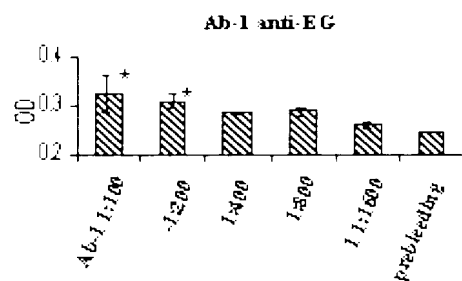


Fig. 15B

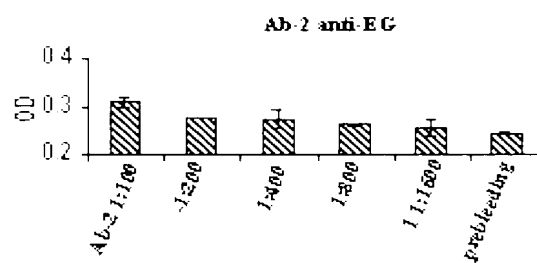


Fig. 15C

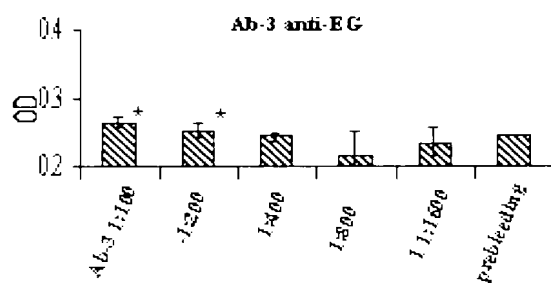


Fig. 15D

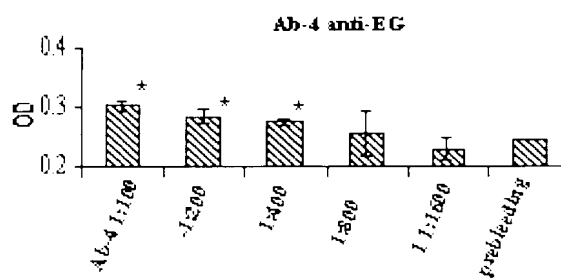


Fig. 15E

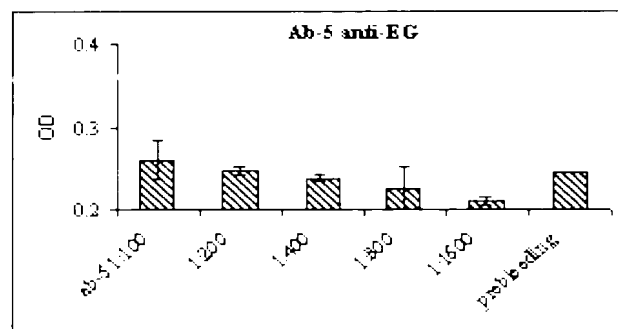
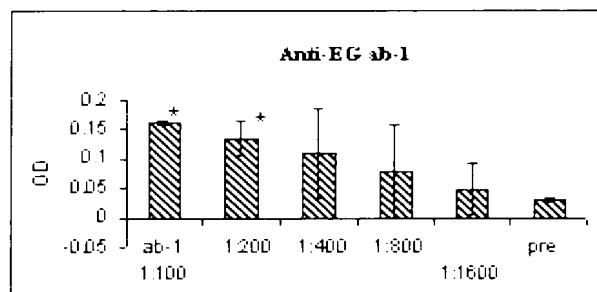
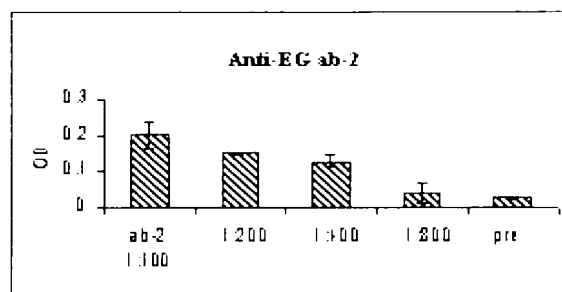
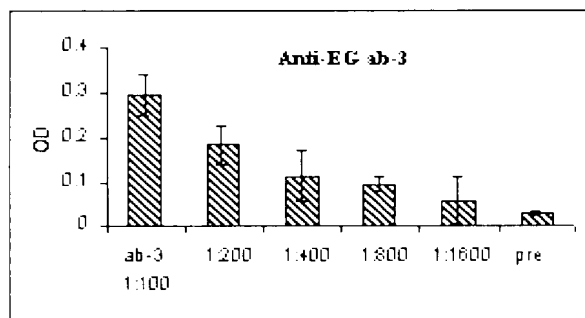


Fig. 16A**Fig. 16B****Fig. 16C****Fig. 16D**